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ROCKY MOUNTAIN SPOTTED FEVER (EASTERN TYPE)

VIRUS RECOVERED FROM THE DOG TICK *Dermacentor variabilis* FOUND IN NATURE

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The American dog tick *Dermacentor variabilis* has a wide distribution in the eastern part of the United States and is the common tick in the localities in Maryland and Virginia where the eastern type of Rocky Mountain spotted fever has occurred (1). Maver (2) reported experimental transmission of the western type of Rocky Mountain spotted fever by the *Dermacentor variabilis*, and Dyer (3) reported the experimental transmission of the eastern type of the disease by the same tick.

During the tick seasons of 1930, 1931, and 1932 attempts were made to recover the virus of spotted fever from the *D. variabilis* found in nature. Several thousand ticks were collected in the States of Maryland and Virginia. In 1930 an occasional guinea pig, upon which ticks had fed or into which ticks had been inoculated, failed to react to subsequent inoculations with the virus of spotted fever. Such evidence alone was regarded as too meager to warrant any conclusions. In 1931, in addition to such occasional apparent immunity produced in guinea pigs by feeding or inoculating ticks, the vascular and nodal lesions, characteristic of spotted fever, were found in the brain of a guinea pig in the fourth generation from the animal inoculated with ticks. This strain of virus was contaminated and discontinued before other criteria for the identification of a strain of spotted fever virus could be fulfilled.

In 1932, efforts to obtain and prove a strain of spotted fever virus from ticks infected in nature met with success. This strain of virus obtained from ticks was proved to be one of spotted fever by the following facts: It produced in laboratory animals symptoms identical with those produced by a known virus of spotted fever (eastern type); it produced the same brain lesions as those produced by the spotted fever virus; it produced in the serum of the rabbit and the monkey agglutinins for *B. proteus* X_{19}; a complete cross immunity with the virus of Rocky Mountain spotted fever was demonstrated.

PROCEDURE

Approximately 200 ticks (*D. variabilis*) were collected from a farm in Virginia on which a human case of the disease had occurred. The ticks, which were not numerous on this farm, were collected a few at a time during the period July 12 to September 2, 1932. The unfed and partly engorged ticks were fed, in lots of 3 to 15, on guinea pigs. When the female ticks had become engorged, the ticks were removed, washed with alcohol and ether, emulsified in normal salt solution, and inoculated intraperitoneally into fresh guinea pigs. Those female ticks which were engorged, at the time of collection, were emulsified in normal salt solution after being washed with alcohol and ether, and inoculated intraperitoneally into fresh guinea pigs. In some of the tests the ticks were incubated at 37° C. for 24 or 48 hours before being allowed to feed, or before being inoculated.

Seven male and two unengorged female ticks, collected August 8, were incubated for 24 hours at 37° C. and allowed to feed on guinea pig 8014. On the eighth day after the application of the ticks the morning temperature of the guinea pig was 40° C. The ticks were removed. Each of the male ticks was feeding while one of the females had fed to engorgement and become detached. The other female had died, apparently without feeding.

THE VIRUS OBTAINED BY FEEDING OF THE TICKS

On the first day of fever, guinea pig 8014 was killed and bled from the heart. The cardiac blood was cultured and inoculated into two fresh male guinea pigs. Each animal received intraperitoneally 4 cc of the whole cardiac blood. The culture media inoculated with the blood revealed no growth for seven days, and each guinea pig reacted to the inoculation with fever. From these guinea pigs a strain of the virus of Rocky Mountain spotted fever was established.

THE VIRUS OBTAINED BY INOCULATING THE TICKS

The female tick which had fed to engorgement on guinea pig 8014, after having been incubated at 37° C. for 24 hours, was washed with ether, then alcohol, and again with ether. It was then emulsified in sterile salt solution and inoculated, intraperitoneally, into two fresh guinea pigs. Culture media inoculated with this emulsion remained sterile. The guinea pigs inoculated with this tick emulsion became febrile after a period of incubation of three days in one, and four days in the other. From these guinea pigs a strain of Rocky Mountain spotted fever virus was established. This strain of virus has now been carried in guinea pigs for 19 generations.

Clinical manifestations and gross pathology.—The reactions produced by this tick virus in the guinea pig, rabbit, and monkey are identical with those produced by the eastern type of spotted fever virus (1).

Microscopic pathology.—The brains of seven guinea pigs which had reacted to the tick strain of virus were examined microscopically. Vascular and nodal lesions like those seen in Rocky Mountain spotted fever and typhus were found in five of the seven brains examined.

Weil-Felix reaction.—This tick virus produced in the sera of rabbits and monkeys agglutinins to *B. proteus* X_{19}. Complete agglutination in the titer of 1:160 was observed.

Cross immunity tests.—There is a complete cross immunity between the virus obtained from the tick and the western and eastern spotted fever viruses. There is no cross immunity between this tick virus and the viruses of endemic and epidemic typhus.

Cultures inoculated with the cardiac blood of animals from which transfers were made were consistently negative.

Results of a few of the cross immunity tests are shown in the accompanying tables.

Table 1.—Guinea pigs immune to Rocky Mountain spotted fever (eastern type) inoculated, along with four fresh guinea pigs as controls, with the tick virus: The immune spotted fever guinea pigs failed to react (immune), while each of the fresh animals reacted.

Table 2.—Guinea pigs immune to the tick virus inoculated, along with four fresh guinea pigs as controls, with the virus of Rocky Mountain spotted fever (western virulent): The immune tick virus guinea pigs failed to react (immune), while each of the four fresh animals reacted.

Table 3.—Guinea pigs immune to a virus of endemic typhus inoculated, along with four fresh guinea pigs as controls, with the tick virus: The immune typhus guinea pigs reacted (non-immune), as did the fresh animals.

Table 4.—Guinea pigs immune to the tick virus inoculated, along with two fresh guinea pigs as controls, with the virus of epidemic (European) typhus: The immune tick virus guinea pigs reacted (non-immune), as did the fresh animals.

TABLE 1.—*Cross immunity tests between the virus recovered from ticks and the virus of Rocky Mountain spotted fever (eastern type). Daily temperature records*

Day after inoculation	Guinea pigs inoculated with the tick virus					
	Fresh guinea pigs				Immune Rocky Mountain spotted fever guinea pigs (eastern type)	
	8457	8458	8459	8460	T. M. 904	T. M. 907
0	39.0	39.3	39.3	39.0	38.8	39.2
1	39.5	39.1	39.0	39.0	38.6	38.5
2	39.5	39.5	40.0	39.5	39.0	38.8
3	39.8	39.0	39.8	39.5	38.8	39.2
4	39.5	39.3	39.5	39.5	39.0	39.0
5	40.0	39.5	39.8	39.5	39.0	39.0
6	40.0	39.0	40.4	39.1	39.2	39.0
7	41.3	39.4	39.6	39.2	38.6	38.8
8	41.0	40.5	39.5	40.0	38.8	38.4
9	41.0	40.5	40.0	39.0	38.0	38.0
10	40.7	(1)	40.2	39.5	39.0	38.5
11	39.0		40.5	40.5	38.2	38.0
12	(1)		41.0	40.5	38.0	38.0
13						
14			40.8	40.2	38.0	38.0
15			(2)	39.8	38.2	38.0
16				40.0	39.2	39.0
17				38.8	39.2	39.0
18				39.5	39.0	38.8

[1] Killed for transfer.
[2] Dead.
[3] Killed for pathological examination.

TABLE 2.—*Cross immunity tests between the virus recovered from ticks and the virus of Rocky Mountain spotted fever (western type). Daily temperature records*

Day after inoculation	Guinea pigs inoculated with Rocky Mountain spotted fever virus					
	Fresh guinea pigs				Immune tick virus guinea pigs	
	316	317	318	319	9003	9105
0	39.3	38.9	38.5	39.0	39.0	39.0
1	38.5	39.0	38.8	39.3	39.0	38.5
2	38.2	38.0	38.3	38.5	39.0	39.0
3	39.5	40.0	40.0	41.0	39.0	39.0
4	[1] 40.5	40.0	40.2	39.5	38.2	38.0
5	(2)	[1] 41.0	[1] 40.7	[1] 41.0	39.3	38.5
6			(2)			
7		40.8		41.0	39.0	39.0
8		40.8		41.2	39.0	39.0
9		40.6		40.0	39.5	38.8
10		39.8		39.3	39.5	38.8
11		38.0		(3)	39.3	39.0
12		(2)			39.3	39.0
13					39.4	38.5
14					39.0	38.5

[1] Scrotal involvement. [2] Killed for transfer. [3] Dead.

TABLE 3.—*Cross immunity tests between the virus recovered from ticks and the virus of endemic typhus. Daily temperature records*

Day after inoculation	Guinea pigs inoculated with the tick virus					
	Fresh guinea pigs				Immune endemic typhus guinea pigs	
	9355	9356	9357	9358	W 3916	S 9109
0	38.6	38.5	39.2	38.5	38.8	39.4
1	39.5	38.8	39.7	39.0	39.5	39.5
2	39.3	39.0	39.0	40.5	39.5	39.0
3	40.2	39.5	40.5	40.0	39.5	39.5
4	40.0	40.0	39.8	40.2	39.2	39.3
5	41.2	40.0	40.5	40.5	39.5	40.0
6	40.8	(1)	40.0	40.8	39.5	40.2
7	40.5		40.0	39.5	40.3	39.5
8	40.8		39.5	(2)	40.0	40.0
9					40.4	40.4
10	40.0		39.0		40.6	39.5
11	39.3		39.0		40.0	39.0
12	(3)		(3)		39.8	38.5
13					38.6	38.5
14					39.0	39.0

[1] Killed for transfer.
[2] Died.
[3] Killed for pathological examination of brain.

TABLE 4.—*Cross immunity tests between the virus recovered from ticks and the virus of European (epidemic) typhus. Daily temperature records*

Day after inoculation	Guinea pigs inoculated with the epidemic typhus virus			
	Fresh guinea pigs		Immune tick virus guinea pigs	
	B 2147	B 2148	9421	9422
0	38.5	39.0	38.5	38.5
1	39.3	39.0	39.2	39.5
2			39.2	39.0
3	39.0	38.5	38.5	38.2
4	39.3	38.7	39.5	39.8
5			38.8	38.8
6	40.0	40.0	39.0	38.8
7	40.1	39.5	40.5	40.0
8	40.0	40.0	40.5	40.2
9	40.2	(1)	40.0	39.5
10	40.2		40.0	39.8
11	40.5		40.4	39.4
12	40.0		40.0	39.0
13	39.8		39.3	39.0
14	39.5		39.0	38.6

[1] Killed for transfer.

SUMMARY

A dog tick (*Dermacentor variabilis*) obtained from a farm on which a human case of spotted fever had occurred was proved to be infected in nature with the virus of Rocky Mountain spotted fever, eastern type.

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ENDEMIC TYPHUS FEVER VIRUS RECOVERED FROM WILD RAT TRAPPED AT TYPHUS FOCUS IN THE UNITED STATES

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Recovery of the virus of endemic typhus from rat fleas caught at typhus foci has been reported from the United States (1) (2) (3), Manchuria (4), and Greece (5). Endemic typhus virus has been recovered from the brains of wild rats trapped in Mexico (6), Greece (7), Manchuria (4), Syria (8), and the United States (9).

At the time of the report of the recovery of endemic virus from the brains of a wild rat in the United States, complete data were not recorded. Such data are the subject of this report.

In April, 1932, rats were trapped on premises in Savannah, Ga., where cases of endemic typhus had recently occurred. The brains of these rats were emulsified in salt solution and injected intraperitoneally into guinea pigs. The animals inoculated with the brain emulsion of one of these rats developed the characteristic febrile and scrotal reactions of endemic typhus. The guinea pigs showing the typical reactions were sacrificed and material from them (blood and testicular washings) was inoculated into other guinea pigs. In this manner the virus was perpetuated in guinea pigs and maintained for 30 generations.

Of 481 guinea pigs inoculated with this strain of virus, 30 died of intercurrent infections and 85 per cent of the survivors showed the characteristic scrotal reaction. It was noted that 90 per cent of the guinea pigs inoculated with testicular virus and 78 per cent of those inoculated with blood virus developed genital involvement. Rickettsiæ were found in smears made from the tunica vaginalis of infected guinea pigs. Four rabbits inoculated with the virus developed agglutinins for *B. proteus* X_{19}, type O, as follows: Complete agglutination, 1:160, two rabbits; 1:320, one rabbit; and 1:640, one rabbit.

The nodal lesions of typhus were found in the brain of one guinea pig used in propagating the virus. The brains of seven guinea pigs were frankly negative, while in the brains of six suggestive changes were noted. All of the guinea pigs chosen for microscopic pathology had shown typical scrotal involvement during life. Complete cross-immunity (see Tables 1 and 2), was found to exist between the strain of virus isolated from the wild rat and known strains of endemic typhus virus.

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CROSS-IMMUNITY TESTS

TABLE 1.—*Daily temperature records (centigrade)*

Guinea pig W-2572	Guinea pig W-2582	Guinea pig Sav. 6817	Guinea pig Sav. 6818
* 38.7	* 38.9		
38.5	38.5		
38.8	39.0		
39.0	39.8 R. & S.		
39.0	40.0 R. & S.		
39.5	---- R. & S.		
40.3 R. & S.	40.3 R. & S.		
39.8 R. & S.	40.3 R. & S.		
40.0 R. & S.	40.0 R. & S.		
39.5 R. & S.	39.5 R. & S.		
39.6 R. & S.	39.0		
39.5	39.0		
	39.0		
† 39.0	† 38.8	† 38.8	† 39.1
39.0	38.5	38.5	38.8
39.2	39.3	39.5	39.0
39.5	39.0	40.8 R. & S.	40.5 R. & S.
39.5	39.0	39.8 R. & S.	39.5 R. & S.
39.4	38.5	40.7 R. & S.	40.0 R. & S.
38.5	38.8	40.2 R. & S.	39.6 R. & S.
38.7	38.6	40.0 R. & S.	40.0 R. & S.
39.5	38.5	39.5	40.0
39.0	38.5	39.5	39.8
39.1	38.6	39.4	
39.5	39.5		
39.2	39.5		39.4
38.5	38.0		
39.5	39.0		
39.2	38.6		
39.0	38.5		
39.4	39.2		

* Inoculated with known endemic typhus virus.
† Inoculated with virus recovered from wild rat.
R. & S.—Characteristic scrotal involvement.

TABLE 2.—*Daily temperature records (centigrade)*

Guinea pig Sav. 9543	Guinea pig Sav. 9579	Guinea pig 9812	Guinea pig 9813
[a] 39.0	[a] 39.4		
38.9	38.9		
39.2	39.0		
	40.2		
39.0	40.0 R. & S.		
38.7	40.2 R. & S.		
40.0 R. & S.	---- R. & S.		
38.7 R. & S.	39.5 R. & S.		
39.9 R. & S.	39.6 R. & S.		
39.8 R. & S.	39.5 R. & S.		
---- R. & S.	39.1		
39.5 R. & S.	39.4		
40.0	39.6		
39.6	39.0		
[b] 38.5	[b] 38.5	[b] 38.5	[b] 39.0
38.5	38.7	38.6	38.7
38.6	39.0	39.5	39.8
38.4	39.0	38.9	40.2
39.0	39.4	39.0	39.8 R. & S.
39.0	38.6	39.1	40.5 R. & S.
38.7	39.1	40.0 R. & S.	40.1 R. & S.
39.1	39.0	39.8 R. & S.	39.5 R. & S.
38.5	39.0	([c])	39.6
39.5	39.5		
38.5	38.8		
38.6	39.4		
39.0	39.4		
39.5	39.0		
38.5	39.0		

[a] Inoculated with virus recovered from wild rat.
[b] Inoculated with known endemic typhus virus.
[c] Killed for transfer.
R. & S.=Characteristic scrotal involvement.

DEATHS DURING WEEK ENDED DECEMBER 10, 1932

[From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce]

	Week ended Dec. 10, 1932	Corresponding week, 1931
Data from 85 large cities of the United States:		
Total deaths	8,651	7,768
Deaths per 1,000 population, annual basis	12.3	11.2
Deaths under 1 year of age	609	627
Deaths under 1 year of age per 1,000 estimated live births [1]	51	49
Deaths per 1,000 population, annual basis, first 49 weeks of year	11.1	11.7
Data from industrial-insurance companies:		
Policies in force	69,666,314	74,343,907
Number of death claims	13,381	13,176
Death claims per 1,000 policies in force, annual rate	10.0	9.2
Death claims per 1,000 policies, first 49 weeks of year, annual rate	9.5	9.6

[1] 1932, 81 cities; 1931, 77 cities.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended December 17, 1932, and December 19, 1931

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended December 17, 1932, and December 19, 1931

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931
New England States:								
Maine	3	18		9		131	0	1
New Hampshire	1	1			1		0	0
Vermont	2					101	0	0
Massachusetts	40	67	10	7	110	294	1	3
Rhode Island	4	4	1			390	0	0
Connecticut	5	9	13	8	13	67	0	3
Middle Atlantic States:								
New York	49	156	45	[1] 13	715	447	3	7
New Jersey	41	35	32	8	230	46	0	1
Pennsylvania	92	146			208	681	2	6
East North Central States:								
Ohio	78	92	644	7	203	59	3	1
Indiana	67	77	1,078	15	24	38	2	9
Illinois	80	135	167	3	54	36	11	4
Michigan	31	58	57	3	271	43	3	3
Wisconsin	13	23	111		222	39	0	1
West North Central States:								
Minnesota	6	27	10		84	24	3	0
Iowa	27	45			3	3	0	1
Missouri	26	102	184	4	14	6	4	8
North Dakota	9	5			120	7	0	0
South Dakota	20	2	17		2	80	0	0
Nebraska	35	15	26	4	1	6	1	0
Kansas	28	54	41	1	6	11	2	0
South Atlantic States:								
Delaware	4	9	1		1	1	0	0
Maryland [2]	26	58	171	24	6	6	1	2
District of Columbia	5	16	64	1			2	0
Virginia	30				147		0	
West Virginia	25	65	62	18	88	281	4	3
North Carolina	38	71	192	8	49	55	0	1
South Carolina [3]	12	13	1,446	406	11	36	0	0
Georgia [3]	36	26	3,954	49		1	0	0
Florida [3]	23	9	38	1	1		1	1

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended December 17, 1932, and December 19, 1931—Continued

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931
East South Central States:								
Kentucky	29	62	2,537				1	1
Tennessee	25	73	3,767	25	5	19	2	2
Alabama [3]	27	71	7,034	19	3	7	2	2
Mississippi	6	21					1	0
West South Central States:								
Arkansas	13	30	4,272	15	1		0	0
Louisiana	26	44	4,945	9		8	2	2
Oklahoma [4]	29	83	2,305	43	2	3	0	0
Texas [3]	104	106	498	14	232	4	0	0
Mountain States:								
Montana	1	1	1,388		449	104	1	1
Idaho	5	2	9		5	1	1	1
Wyoming			101		17	1	0	0
Colorado	6	3	313		8	4	0	0
New Mexico [4]	10	13	8	1	1	6	0	0
Arizona	5	11	174	5		1	1	0
Utah [3]	2	1	21	7			1	0
Pacific States:								
Washington	2	4	1		5	100	0	1
Oregon	1	1	769	57	45	3	1	0
California	64	105	1,271	104	27	99	1	4
Total	1,220	1,969	37,777	888	3,384	3,249	57	69

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931
New England States:								
Maine	0	0	31	28	0	0	0	2
New Hampshire	0	0	21	12	0	0	0	0
Vermont	0	0	11	7	0	10	0	0
Massachusetts	2	8	360	369	0	0	7	5
Rhode Island	0	0	34	26	0	0	0	0
Connecticut	0	0	63	58	0	32	2	4
Middle Atlantic States:								
New York	1	15	504	476	3	5	8	23
New Jersey	3	5	213	142	0	0	5	3
Pennsylvania	6	9	651	468	0	0	7	28
East North Central States:								
Ohio	2	3	550	326	8	20	21	6
Indiana	0	0	118	95	5	10	4	5
Illinois	0	6	391	307	2	18	11	5
Michigan	0	3	297	240	0	14	6	8
Wisconsin	2	0	84	63	1	3	1	3
West North Central States:								
Minnesota	0	9	73	63	0	3	0	0
Iowa	0	3	47	43	64	83	0	1
Missouri	0	1	76	74	0	6	1	5
North Dakota	2	0	12	28	0	22	0	0
South Dakota	0	0	10	19	1	11	2	1
Nebraska	0	1	50	23	3	5	0	4
Kansas	1	1	88	82	1	3	0	3
South Atlantic States:								
Delaware	0	1	11	1	0	0	0	1
Maryland [3]	0	0	100	87	0	0	7	11
District of Columbia	0	0	12	25	0	0	0	0
Virginia	0		78		0		13	
West Virginia	0	1	69	65	0	4	5	31
North Carolina	1	3	77	99	0	1	4	8
South Carolina [3]	0	1	13	13	2	0	5	11
Georgia [3]	2	1	22	28	0	6	2	14
Florida [3]	0	1	8	4	0	1	5	0

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended December 17, 1932, and December 19, 1931—Continued

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931	Week ended Dec. 17, 1932	Week ended Dec. 19, 1931
East South Central States:								
Kentucky	0	0	40	93	1	0	7	6
Tennessee	2	0	39	54	19	4	12	21
Alabama [3]	0	2	20	59	1	0	0	0
Mississippi	0	0	12	13	1	18	1	2
West South Central States:								
Arkansas	0	0	23	11	2	0	5	10
Louisiana	0	0	12	26	0	1	14	19
Oklahoma [4]	0	0	34	57	4	1	0	13
Texas [3]	0	0	82	73	7	7	6	12
Mountain States:								
Montana	0	1	10	36	0	2	1	3
Idaho	0	0	4	6	1	0	1	0
Wyoming	0	0	13	10	0	0	0	0
Colorado	0	0	25	21	0	0	0	3
New Mexico [5]	0	0	18	8	0	0	1	2
Arizona	0	0	5	9	0	0	1	0
Utah [2]	0	0	25	18	0	0	0	1
Pacific States:								
Washington	0	1	44	50	22	10	0	0
Oregon	0	0	20	19	7	11	2	0
California	3	2	111	127	1	2	8	6
Total	27	78	4,701	3,961	156	313	175	289

[1] New York City only.
[2] Week ended Friday.
[3] Typhus fever, week ended Dec. 17, 1932, 17 cases: 1 case in South Carolian, 8 cases in Georgia, 1 case in Florida, 5 cases in Alabama, and 2 cases in Texas.
[4] Figures for 1932 are exclusive of Oklahoma City and Tulsa.
[5] Rocky Mountain spotted fever, week ended Dec. 17, 1932, 1 case in New Mexico.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Meningococcus meningitis	Diphtheria	Influenza	Malaria	Measles	Pellagra	Poliomyelitis	Scarlet fever	Smallpox	Typhoid fever
November, 1932										
Alabama	4	237	2,206	133	14	14	2	189	2	29
Arkansas	--------	135	387	70	9	39	1	161	5	36
Delaware	--------	14	1	--------	2	--------	0	17	0	--------
Florida	--------	132	17	51	1	2	0	30	0	9
Maryland	1	79	50	--------	21	2	7	336	0	36
Massachusetts	10	160	14	--------	279	1	4	1,039	0	12
Michigan	9	89	57	2	814	--------	7	1,004	11	44
Minnesota	3	72	3	--------	348	--------	6	334	4	13
New Jersey	2	107	54	--------	590	--------	15	618	0	25
Pennsylvania	13	488	--------	3	889	2	46	2,017	0	125
South Carolina	--------	291	1,787	1,033	52	127	3	57	2	30

November, 1932

	Cases
Actinomycosis:	
Massachusetts	1
Chicken pox:	
Alabama	62
Arkansas	122
Delaware	33
Florida	1
Maryland	430
Massachusetts	1,127
Michigan	1,735
Minnesota	1,017
New Jersey	1,147
Pennsylvania	3,668
South Carolina	106
Dengue:	
South Carolina	2
Diarrhea:	
Maryland	14
South Carolina	287
Dysentery:	
Maryland	8
Massachusetts	24
Michigan	4
Minnesota	1
Minnesota (amebic)	1
Pennsylvania	4
German measles:	
Maryland	10
Massachusetts	25
New Jersey	32
Hookworm disease:	
South Carolina	52
Impetigo contagiosa:	
Maryland	62
Lead poisoning:	
Massachusetts	4
New Jersey	1
Lethargic encephalitis:	
Alabama	3
Michigan	5
Lethargic encephalitis—Contd.	
Minnesota	1
New Jersey	1
Pennsylvania	4
South Carolina	1
Mumps:	
Alabama	58
Arkansas	111
Delaware	4
Florida	3
Maryland	120
Massachusetts	353
Michigan	515
New Jersey	378
Pennsylvania	1,198
South Carolina	37
Ophthalmia neonatorum:	
Arkansas	2
Massachusetts	78
New Jersey	1
Pennsylvania	6
South Carolina	13
Paratyphoid fever:	
South Carolina	6
Psittacosis:	
Minnesota	2
Puerperal septicemia:	
Pennsylvania	27
Rabies in animals:	
New Jersey	16
South Carolina	6
Rabies in man:	
Alabama	1
Michigan	1
Scabies:	
Maryland	4
South Carolina	6
Septic sore throat:	
Maryland	1
Massachusetts	15
Michigan	23
Tetanus:	
Maryland	3
Massachusetts	1
Minnesota	1
Pennsylvania	4
South Carolina	3
Trachoma:	
Arkansas	26
Massachusetts	3
Pennsylvania	1
Trichinosis:	
New Jersey	1
Tularaemia:	
Arkansas	4
Maryland	6
Michigan	3
Minnesota	7
Pennsylvania	2
South Carolina	1
Typhus fever:	
Alabama	17
Maryland	2
South Carolina	1
Undulant fever:	
Alabama	1
Delaware	1
Maryland	3
Massachusetts	1
Michigan	2
Minnesota	3
New Jersey	3
Vincent's angina:	
Maryland	10
Whooping cough:	
Alabama	75
Arkansas	61
Delaware	21
Maryland	101
Massachusetts	396
Michigan	921
Minnesota	125
New Jersey	305
Pennsylvania	939
South Carolina	110

WEEKLY REPORTS FROM CITIES

City reports for week ended December 10, 1932

State and city	Diphtheria cases	Influenza		Measles cases	Pneumonia deaths	Scarlet fever cases	Smallpox cases	Tuberculosis deaths	Typhoid fever cases	Whooping cough cases	Deaths, all causes
		Cases	Deaths								
Maine:											
Portland	1		0	0	0	11	0	0	0	5	20
New Hampshire:											
Concord	0		0	0	0	1	0	3	0	0	7
Nashua	0		0	0	0	0	0	0	0	0	
Vermont:											
Barre	0		0	0	1	0	0	1	0	0	2
Burlington	3		0	0	0	2	0	0	0	0	5
Massachusetts:											
Boston	13		0	35	21	82	0	9	1	61	221
Fall River											
Springfield	0		1	3	0	4	0	2	0	5	33
Worcester	2		0	1	2	22	0	1	0	0	47
Rhode Island:											
Pawtucket	0		0	0	0	0	0	0	0	0	15
Providence	0		2	0	5	18	0	2	1	36	70
Connecticut:											
Bridgeport	0	1	1	16	4	3	0	1	1	4	37
Hartford	1	2	1	2	3	4	0	2	0	3	34
New Haven	0		0	0	3	3	0	0	0	8	35
New York:											
Buffalo	2	2	0	4	30	44	0	5	0	22	140
New York	55	30	12	230	139	198	0	76	8	129	1,439
Rochester	0		1	0	8	22	0	1	1	3	52
Syracuse	0		0	3	3	20	0	2	0	0	50
New Jersey:											
Camden	6		1	0	2	6	0	3	0	2	35
Newark	5	14	0	36	11	17	0	5	0	13	103
Trenton	2		1	1	2	7	0	2	0	6	46
Pennsylvania:											
Philadelphia	5		1	23	30	122	0	29	1	9	515
Pittsburgh	12	35	12	0	60	38	0	11	3	14	264
Reading	0		0	15	1	2	0	1	0	7	28
Ohio:											
Cincinnati	1	2	5	0	17	18	0	3	1	3	147
Cleveland	9	275	10	4	34	79	0	9	3	25	233
Columbus	0	145	3	184	10	6	0	4	1	2	84
Toledo	2	7	3	8	6	26	0	3	0	6	76
Indiana:											
Fort Wayne	10		1	0	4	1	0	1	0	0	
Indianapolis	2		5	7	14	8	0	8	0	3	
South Bend	0		0	0	3	4	0	0	0	2	15
Terre Haute	2		1	0	4	2	0	0	0	0	24
Illinois:											
Chicago	13	77	19	66	72	205	0	42	1	31	752
Springfield											
Michigan:											
Detroit	14	26	3	42	23	82	0	17	1	96	242
Flint	0		0	0	5	0	0	0	0	0	18
Grand Rapids	0		2	0	3	5	0	0	1	41	37
Wisconsin:											
Kenosha	0		0	0	0	5	0	1	1	1	8
Madison	1			0		1	0		0	1	
Milwaukee	4	2	2	4	8	22	0	7	0	17	106
Racine	0		0	0	1	3	0	0	0	5	20
Superior	0		1	0	1	0	0	0	0	0	12
Minnesota:											
Duluth	0		0	0	6	4	0	1	0	0	25
Minneapolis	1		4	70	16	18	0	5	0	11	116
St. Paul	1		0	2	8	9	0	1	0	26	52
Iowa:											
Des Moines	12			0		10	0		0	0	30
Sioux City	0			0		2	0		0	2	
Waterloo	0			0		0	0		0	0	
Missouri:											
Kansas City	1	5	1	25	9	19	0	8	0	1	111
St. Joseph	3		2	1	12	2	0	3	0	0	
St. Louis	19	6	7	2	15	26	0	10	1	1	219
North Dakota:											
Fargo	0		0	2	3	1	0	0	0	0	12
Grand Forks	0		0	21	0	0	0	0	0	0	
South Dakota:											
Aberdeen	1		0	0	0	1	0	0	0	0	
Nebraska:											
Omaha	10		0	0	0	8	0	0	0	0	53

City reports for week ended December 10, 1932—Continued

State and city	Diphtheria cases	Influenza		Measles cases	Pneumonia deaths	Scarlet fever cases	Smallpox cases	Tuberculosis deaths	Typhoid fever cases	Whooping cough cases	Deaths, all causes
		Cases	Deaths								
Kansas:											
Topeka	3	-------	0	2	3	2	0	1	0	3	10
Wichita	0	-------	0	0	3	6	0	2	0	0	26
Delaware:											
Wilmington	0	-------	0	0	5	2	0	1	1	2	28
Maryland:											
Baltimore	2	33	1	6	22	69	0	17	1	26	207
Cumberland	0	-------	0	0	0	3	0	1	0	0	13
Frederick	0	-------	0	0	0	1	0	0	0	0	2
Dist. of Columbia:											
Washington	10	13	2	2	15	26	0	14	0	11	159
Virginia:											
Lynchburg	2	-------	0	0	5	4	0	0	0	5	10
Norfolk	0	-------	0	0	5	4	0	0	0	0	26
Richmond	1	-------	1	0	4	6	0	4	0	0	51
Roanoke	5	-------	0	0	0	5	0	0	0	0	12
West Virginia:											
Charleston	0	9	0	0	1	4	0	0	0	1	9
Huntington	4	-------	-------	17	-------	3	0	-------	0	0	-------
Wheeling	0	3	0	53	9	4	0	1	0	2	25
North Carolina:											
Raleigh	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Wilmington	0	-------	0	0	0	2	0	1	1	0	6
Winston-Salem	0	2	0	1	1	0	0	0	0	1	11
South Carolina:											
Charleston	0	56	2	0	1	1	0	0	1	0	20
Columbia	2	-------	0	1	1	0	1	2	0	0	11
Georgia:											
Atlanta	2	1,298	14	1	9	5	0	0	0	6	107
Brunswick	0	-------	0	0	0	0	0	1	0	0	4
Savannah	0	9	1	0	3	3	0	1	0	1	38
Florida:											
Miami	2	-------	0	0	0	1	0	1	0	0	20
Tampa	7	-------	0	0	2	0	0	0	0	0	22
Kentucky:											
Covington	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Lexington	1	20	0	0	2	2	0	5	0	0	23
Louisville	7	156	0	4	12	14	0	4	0	0	91
Tennessee:											
Memphis	3	-------	3	1	8	6	0	4	4	0	78
Nashville	7	-------	2	0	3	6	0	3	0	0	42
Alabama:											
Birmingham	4	1,332	5	0	7	12	0	2	1	0	71
Mobile	4	126	8	0	4	1	0	0	0	0	27
Montgomery	1	90	-------	0	-------	1	0	-------	0	0	-------
Arkansas:											
Fort Smith	3	-------	-------	0	-------	2	0	-------	0	0	-------
Little Rock	3	18	0	0	1	1	2	0	1	0	1
Louisiana:											
New Orleans	15	373	58	0	46	7	0	17	0	0	256
Shreveport	3	-------	0	0	8	0	0	0	0	0	44
Oklahoma:											
Oklahoma City	3	600	1	0	3	17	0	2	0	0	38
Tulsa	1	-------	0	0	0	0	0	0	0	0	1
Texas:											
Dallas	14	7	6	0	2	14	0	0	0	0	55
Fort Worth	7	-------	1	4	9	11	0	1	0	0	45
Galveston	4	-------	0	0	3	1	0	1	1	0	18
Houston	11	-------	6	0	17	8	0	1	0	0	73
San Antonio	5	7	4	0	16	5	0	5	0	0	74
Montana:											
Billings	0	-------	0	0	0	0	0	0	0	0	9
Great Falls	0	-------	0	169	0	0	0	0	0	0	3
Helena	0	249	0	0	0	0	0	0	0	0	3
Missoula	0	-------	0	0	0	0	0	0	0	0	5
Idaho:											
Boise	0	-------	0	7	0	1	7	0	0	0	7
Colorado:											
Denver	3	-------	9	6	31	11	0	4	0	1	112
Pueblo	0	-------	0	0	0	0	0	0	0	0	5
New Mexico:											
Albuquerque	0	-------	1	0	0	1	0	5	0	2	9
Arizona:											
Phoenix	0	-------	0	0	1	0	0	5	0	0	-------

City reports for week ended December 10, 1932—Continued

State and city	Diphtheria cases	Influenza		Measles cases	Pneumonia deaths	Scarlet fever cases	Smallpox cases	Tuberculosis deaths	Typhoid fever cases	Whooping cough cases	Deaths, all causes
		Cases	Deaths								
Utah:											
Salt Lake City	0	-------	5	2	5	7	0	2	0	1	38
Nevada:											
Reno	0	-------	0	0	2	0	0	0	0	0	7
Washington:											
Seattle	0	1	-------	0	-------	4	0	-------	3	7	-------
Spokane	0	-------	-------	0	-------	0	0	-------	0	0	-------
Tacoma	0	-------	0	0	0	0	0	0	0	0	30
Oregon:											
Portland	0	6	1	0	7	5	3	4	0	0	71
Salem	0	16	-------	11	-------	0	1	-------	0	0	-------
California:											
Los Angeles	28	422	10	26	28	36	15	18	0	34	302
Sacramento	0	7	2	0	10	1	0	6	0	0	39
San Francisco	3	101	5	2	12	8	0	9	0	45	152

State and city	Meningococcus meningitis		Poliomyelitis cases	State and city	Meningococcus meningitis		Poliomyelitis cases
	Cases	Deaths			Cases	Deaths	
Massachusetts:				**Michigan:**			
Boston	1	0	0	Detroit	2	1	0
New York:				**Nebraska:**			
New York	1	1	1	Omaha	1	0	0
Rochester	1	0	0				
New Jersey:				**Tennessee:**			
Newark	0	0	1	Memphis	1	0	0
Pennsylvania:				**Alabama:**			
Philadelphia	0	0	3	Mobile	1	0	0
Pittsburgh	2	0	0				
				Utah:			
Ohio:				Salt Lake City	1	1	1
Cleveland	0	0	1	**Washington:**			
Indiana:				Seattle	1	0	1
Indianapolis	2	0	0	**California:**			
Illinois:				Los Angeles	0	0	1
Chicago	6	5	1	San Francisco	0	1	0

1. Lethargic encephalitis—Cases: New York, 1; Chicago, 1; Washington, 1; Birmingham, 1; Los Angeles 1.
2. Pellagra—Cases: Charleston, S. C., 1; Atlanta, 1; Savannah, 2; Birmingham, 1; Dallas, 1; Los Angeles 1.
3. Typhus Fever—Cases: New York, 2; Savannah, 4; Montgomery, 1.

FOREIGN AND INSULAR

ALASKA

Cordova—Poliomyelitis.—Information was received December 15, 1932, that 6 cases of poliomyelitis, with 1 death, were reported in Cordova, Alaska. All patients and suspects had been quarantined and no suspect or person known to have been exposed was allowed on boats. Schools had been closed and every precaution was being taken. About one week had elapsed without the development of new cases.

CANADA

Provinces—Communicable diseases—Week ended December 3, 1932.—The Department of Pensions and National Health of Canada reports cases of certain communicable diseases for the week ended December 3, 1932, as follows:

Disease	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total
Cerebrospinal meningitis			1						1
Chicken pox	16	2	129	331	99	59		63	699
Diphtheria	5	3	31	10	3	6		2	60
Erysipelas			1		1			1	3
Influenza			1	7				1,174	1,182
Measles	3	4	101	470	29	2		11	620
Mumps	4			93	16			1	114
Pneumonia, all forms				10				11	21
Poliomyelitis			4	1					5
Scarlet fever	4	17	46	62	21	14		13	177
Trachoma					1				1
Tuberculosis	1		52	38	17	6		25	139
Typhoid fever			12	1	5	3		2	23
Undulant fever				1					1
Whooping cough	4		123	82	26	14		7	256

CUBA

Habana—Communicable diseases—Four weeks ended December 3, 1932.—During the four weeks ended December 3, 1932, certain communicable diseases were reported in Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Diphtheria	28	2	Scarlet fever	6	
Leprosy	1		Tuberculosis	17	
Malaria	23	2	Typhoid fever	9	3
Measles	3				

GREAT BRITAIN

England and Wales—Vital statistics—July–September, 1932.—During the third quarter of the year 1932, 156,302 births and 97,951 deaths were registered in England and Wales. The following statistics are taken from the Quarterly Return of Births, Deaths, and Marriages, issued by the Registrar-General of England and Wales. The figures are provisional.

Birth and death rates in England and Wales, July to September, 1932

Annual rates per 1,000 population:	
Live births	15.5
Stillbirths	.62
Deaths, all causes	9.7
Deaths from—	
Measles	.03
Scarlet fever	.01
Whooping cough	.05
Annual rates per 1,000 population—Contd.	
Deaths from—Continued.	
Diphtheria	0.05
Influenza	.04
Deaths per 1,000 live births:	
Diarrhea and enteritis (under 2 years)	7.3
Total deaths under 1 year	49.0

England and Wales—Infectious diseases—Thirteen weeks ended October 1, 1932.—During the 13 weeks ended October 1, 1932, cases of certain infectious diseases were reported in England and Wales as follows:

Disease	Cases	Disease	Cases
Diphtheria	9,317	Puerperal pyrexia	1,321
Ophthalmia neonatorum	1,117	Scarlet fever	17,795
Pneumonia	6,012	Smallpox	234
Puerperal fever	483	Typhoid fever	909

MEXICO

Tampico—Communicable diseases—November, 1932.—During the month of November, 1932, certain communicable diseases were reported in Tampico, Mexico, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Diphtheria	2	1	Paratyphoid fever	3	1
Enteritis, various	85	75	Tuberculosis		32
Influenza	73	3	Typhoid fever	5	1
Malaria	892	27	Whooping cough	33	

PUERTO RICO

Communicable diseases—Four weeks ended November 5, 1932.—During the four weeks ended November 5, 1932, cases of certain communicable diseases were reported in Puerto Rico as follows:

Disease	Cases	Disease	Cases
Bronchitis	127	Ophthalmia neonatorum	9
Broncho-pneumonia	4	Paratyphoid fever	1
Chicken pox	44	Pellagra	4
Diphtheria	53	Pneumonia	15
Dysentery	410	Puerperal fever	3
Erysipelas	4	Syphilis	151
Filariasis	3	Tetanus	3
Impetigo contagiosa	1	Tetanus, infantile	11
Influenza	2,559	Tuberculosis	367
Malaria	3,694	Typhoid fever	12
Measles	289	Whooping cough	99
Mumps	40		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures or the particular countries for which reports are given.

CHOLERA

[C indicates cases; D, deaths; P, present]

Place		May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932				October, 1932					November, 1932				December, 1932	
						3	10	17	24	1	8	15	22	29	5	12	19	26	3	10
Baluchistan	C		18	59		1														
	D		6	37	2															
China:																				
Amoy	C	3	955	496	36	52	41	31	17	7	6	4								
	D	2	479	212	14	1	15	10	5	2	3	2								
Canton	C	679	358	32	13	3	5	1	5	8	2	2								1
	D	265	106	14	3		3	1	1	3	2	2								
Dairen.[1]																				
Hankow	C	16	89	384	112	56	29	12	1		3									
	D		13	60	16	6	4	7	1		1									
Hong Kong	C	9	118	88	8	8	5	4	1											
	D	9	66	45	8	5	4	3	1											
Kwantung Leased Territory—District of Port Arthur	C		P	2					1											
Macao	C			93	4	4	1		1											
	D		26	92	4	4	1		1											
Nanking	C	254	397	563	93	104	48	13		12										
	D	79	70	84	7	14	7	1												
Newchwang	C	1	5																	
	D		4																	
Shanghai	C	588	1,360	1,648	258	131	110	47	21	11	3									
	D	53	92	139	17	11	10	6	1											
Swatow [2]	C	50	94	238			7	9	2	10	12	6		2						
	D	3	14	31			5													
Tientsin	C	41	222	69	22	5	5			1										
	D	8	22	3	1															
Tsinan—Shantung Province	C				P	P	P	P												
Tsingtao	C			10	22	5	5	4	4	2										
	D			2	8	1	1													

[1] 120 cases, 78 deaths, in Dairen, up to Aug. 28, 1932.
[2] Local unofficial reports included 159 deaths from cholera in Swatow, China, from June 10 to 30, 1932.

Chosen	C				8	9														
	D				8	1														
India	C	3,523	4,232	6,270	1,543	1,657	1,758	1,354	1,390	899	551	786								
	D	1,181	2,135	3,423	836	920	970	751	789	483	384	416								
Bombay	C		2	3									3	1		1				
	D		1	1									2			1				
Calcutta	C	380	405	158	22	23	20	17	16	14	11	21	6	11	24	28	15	8		
	D	186	171	57	9	8	3	5	3	6	6	2	1	3	10	3	6	5		
Rangoon	C	3	1				1													
	D	2																		
India, French:																				
Chandernagor	C	1																		
	D	1																		
Pondichery Territory	C			3																
	D			3																
Indo-China (see also table below):																				
Pnom-Penh	C	3		1				1	2		3									
	D	3						1	2		3									
Saigon and Cholon	C	6	1					1			1		1							
	D	4	1					1			1		1							
Japan:																				
Kobe	C	2																		
Osaka Prefecture	C			1																
Taiwan	C		16																	
Tokyo	C	3																		
Philippine Islands:																				
Bulacan Province	C			3																
	D			2																
Cebu Province	C									1										
	D									1										
Iloilo Province	C							1	13	3										
	D							1	8	2		1								
Iloilo	C			1																
	D			1																
Laguna Province	D		1																	
Leyte Province	C					10	30	3	4										6	7
	D					5	10	3	2										6	3
Manila	C										1									
Samar Province	C					21	16	17	7	12		29	15	8	30	0	0	35		
	D					11	12	11	9	8		21	15	5	22	0	0	26		
Siam	C	8	1	1								1	1							
	D	4		1									1							
Bangkok	C	2																		
Straits Settlements: Singapore	C									1										
	D									1										
On vessels:																				
S. S. Shanghai Maru at Kobe from Shanghai	C	1		1																
S. S. President Wilson en route to Manila from Honolulu via Shanghai and Hong Kong	C		2																	
	D		1																	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

CHOLERA—Continued

[C indicates cases; D, deaths; P, present]

Place		May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932				October, 1932					November, 1932				December 1932	
						3	10	17	24	1	8	15	22	29	5	12	19	26	3	10
On vessels—Continued.																				
S. S. Protesilus at Hong Kong from Shanghai	C			P																
S. S. Nikawa Maru at Hong Kong from Shanghai	C			P																
S. S. Arankola at Rangoon from Calcutta	C	1																		
S. S. Shantung at Swatow from Shanghai	C		1																	
S. S. Yusang at Hong Kong from Shanghai	C			1																
S. S. Taisan Maru en route Tsingtao to Moji	C					1														

Place		April, 1932	May, 1932	June, 1932	July, 1932			August, 1932			September, 1932			October, 1932		
					1–10	11–20	21–31	1–10	11–20	21–31	1–10	11–20	21–30	1–10	11–20	21–31
Indo-China (French) (see also table above):																
Annam [1]	C		134		8											
	D		15		4											
Cambodia [1]	C	25	18	42	11	5	2	6	4			4	2	3	1	
	D	11	3	29	10	4	2	3	2			2	2	3		
Cochin-China [1]	C	27	41	51	16	10	5	2	4	5	8	8	2	4	3	3
	D	18	29	42	15	8	4	1	4	3	7	7	2	4	1	2
Laos [1]	C	7														
	D	3														

[1] Reports incomplete.

PLAGUE [1]

Place		May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932 3	10	17	24	October, 1932 1	8	15	22	29	November, 1932 5	12	19	26	Dec. 3, 1932
Angola: Naulila	C																	P	
Argentina:																			
Chaco—Villa Angela	C							6											
	D							3											
La Rioja Province	D															4			
Salta Province	C														7				12
	D														1				
San Luis Province [1]	C	2		1															
British East Africa (see also table below):																			
Tanganyika	C	20																	
	D	11										10							
Uganda	C	69	83	62	27	24	27	22	20	24	19	32	39						
	D	62	79	56	27	19	25	17	19	21	21	30	38						
Ceylon: Colombo	C	13	6	1		2	1	2	3			2	2	4	1	2	2	1	
	D	13	6			2	1	2	3			1	2	4	1	1	2	2	
Plague-infected rats				2		1				1	1	1	1	3	1				
Chile: Antofagasta—Plague-infected rats				3					1										
Dutch East Indies:																			
Surabaya	C			1				1											
	D			1				1											
West Java	C	196	180	154	47	64	65	83	82	119	116	101	130						
	D	195	180	151	48	63	64	83	80	113	109	101	128						
Ecuador. (See table below).																			
Egypt:																			
Alexandria	C	4	5	6	1						1	3							
	D	4	2	5	1							3							
Assiout	C			1															
Behelra	C	2	1	1			1	1	1			1							
	D	1	2																
Beni Suef	C				1														
Gharbieh	C	3									1	1							
	D	1																	
Minieh	C		1				1	1		3	1				1				
	D		1																
Great Britain: Liverpool—Plague-infected rats									[3] 1										

[1] Including plague in the United States and its possessions.
[2] Several cases of plague with 1 death were reported at Quines, San Luis Province, Argentina, on Dec. 9, 1932.
[3] At dock where steamship City of Oxford was berthed.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE—Continued

[C indicates cases; D, deaths; P, present]

Place		May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932 3	10	17	24	October, 1932 1	8	15	22	29	November, 1932 5	12	19	26	Dec. 3, 1932
Hawaii Territory:																			
Hawaii Island—																			
Hamakua—Kukalau—Plague-infected rats		1																	
Paaulo—Plague-infected rats																	1		
Maui Island—																			
Makawao	C			1				1											
	D			1				1											
Plague-infected rats				2	2					1									
India	C	448	1,122	2,545	972	1,059	647	1,097	1,312	1,462	1,789	1,465							
	D	302	631	1,482	638	633	375	562	760	863	1,031	827							
Bassein	C	3	2	4	1					4					1				
	D	3	1	4	1					1					1				
Plague-infected rats				1								1							
Bombay	C	1					1	3				1	3						
	D	1	1	1			1	3				1	2						
Plague-infected rats		23	21	32	2	7	10	8	11	9	6	4	9	10	11	4	3	5	
Madras	C			5															
Madras Presidency	C	123	233	247	81	62	61	111	115	93	66	69	73	61					
	D	38	98	122	18	31	25	36	50	45	25	33	17	26					
Rangoon	C	1	2	3	3										1	1	1	1	
	D		2	3	3														
Plague-infected rats		3	5	5								2							
Indo-China. (See table below.)																			
Iraq: Baghdad	C	1	1	3		1			1					1	2			1	
	D								1										
Madagascar. (See table below.)																			
Morocco	C		7	1															
Peru. (See table below.)																			
Senegal. (See table below.)																			
Siam	C			1		6						1	4	1					
	D					3							2						
South West Africa: [4]																			
Syria: Beirut	C	1	4	2	1		3		1	2	1		1	4	2	2	5	6	

United States:																		
California—																		
Los Angeles—Plague-infected rats		1																
San Benito County—Plague-infected ground squirrels				2														
On vessels:																		
Steamship Columbia, at Naples from Barcelona—Plague-infected rats		2																
S. S. City of Oxford at Liverpool from Alexandria—Plague-infected rats						1												
S. S. Figuig at Marseille from Bona and Philippeville	C					1												
S. S. Patris at Beirut	C														3			

Place		May, 1932	June, 1932	July, 1932	August, 1932	September, 1932	October, 1932	November, 1932
British East Africa (see also table above): Kenya	C	20	39	65	30	15	7	
Ecuador:								
Province—								
Chimborazo	C	10	2					
Loja	C			4		4		
	D			3		2		
Indo-China	C	2	1	2	2		1	1
	D	1	1	2	2		1	
Madagascar:								
Province—								
Ambositra	C		2	20	9	30		
	D		2	20	8	28		
Antisirabe	C	26	10	31	45	42		
	D	26	9	30	45	41		
Maevatanana	C			1	1			
Miarinarivo	C	1	3	10	5	8		
	D	1	3	9	5	8		
Moramanga	C			15	4	52		
	D			15	4	49		
Tamatave	C		1	2	2		1	
	D			1	2		1	
Tananarive	C	20	13	24	35	75		
	D	20	12	24	35	75		

Place		May, 1932	June, 1932	July, 1932	August, 1932	September, 1932	October, 1932	November, 1932
Peru	C	5	2					
Department—								
Ancachs	C							[5] 2
Lambayeque	C		2		1			
Libertad	C							[5] 1
Lima	C			1		2	2	
	D			1		2		[5] 5
Lima	C	1	2					
	D		1					
Piura	C							[5] P
Senegal:								
Dakar [6]	C			10	37	7	3	
	D			9	28	7	2	
Louga [6]	C	3	1	4	1	2	9	
	D	2	1	3	1	2	6	
Rufisque [6]	C	3	21	28	23	8		
	D	3	17	27	21	5		
Thies [6]	C		8	16	5	15		
	D		3	13		11		
Tivaouane [6]	C					6		
	D					7		

[4] 204 cases of plague with 47 deaths were reported in Ovamboland, Southwest Africa, up to Oct. 29, 1932. Antiplague measures have been taken.
[5] Suspicious cases.
[6] Reports incomplete.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX

[C indicates cases; D, deaths; P, present]

Place		May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932				October, 1932					November, 1932				December, 1932	
						3	10	17	24	1	8	15	22	29	5	12	19	26	3	10
Algeria:																				
Algiers	C	2			1					1			1			1	1			
Southern Territories	C			2									1				1	2		
Arabia—Aden	C																			
Argentina:																				
Formosa Province	C							P						1						
Jujuy Province	C													1						
	D															1				
Belgium	C																		P	
Brazil:																			P	
Parahyba—Joao Pessoa	C																			
Pernambuco—Recife	C																			
Porto Alegre (alastrim)	C	5	7	10	4		4	6												
Santos	C		2																	
British East Africa: Tanganyika	C	51	32	168	4	19	30	42	12	27	19	7	10	56						
	D	17		4	1			1		2		39		5						
British South Africa:																				
Northern Rhodesia	C	4	45	1							1									
Southern Rhodesia	C																			
Canada:																		1		
Alberta	C																			
British Columbia	C	1											1			1				
Manitoba	C		1	1									1							
Ontario	C		1	3			[1] 3													3
Toronto	C																			
Quebec	C	1																	1	
Saskatchewan	C	3	11				[1] 1		6											
China:																				
Amoy	C	1																		
	D	1																		
Canton	C	10	3	4		1				2			6	4	5	13	14	15	79	
	D												1		1		1	1		
Foochow	C	P	P	P		P		P		P		P			P	P				
Hong Kong	C	12	3	2																
	D	12	4	2																

Manchuria: Dairen	C	5																		
	D	3																		
Nanking	C		3									2								
Shanghai	C	6											1			4	1			
	D	3											1			2				
Tientsin	C	2																		
Chosen. (See table below.)																				
Colombia: Cali	D			2																
Dahomey	C	24	8					6	2				6							
	D	7	6																	
Dutch East Indies	C		6	1			1				1									
Egypt:																				
Alexandria	C	1	4	9	1	3	3	5	2	2	1	12	7	5	5	6	8	15	12	42
	D		1	4	1	2		1	3			6	4	2	4	3	4	3	2	9
Cairo	C																1			
Finland	C			1																
Gold Coast. (See table below.)																				
Great Britain:																				
England and Wales	C	140	104	76	13	10	9	19	7	23	17	12	33	34	21	23	16			
London	C	100	79	48	4	1	1	11	2	15	15	24		27	28	21	15			
London and Great Towns	C	128	95	67	12	5	4	17	4	21	17	11	33	34	21	22	16			
Greece. (See table below.)																				
Honduras:																				
Puerto Castilla	C	2	1							1							1			
Tegucigalpa	D				1															
Tela	C					1						2			2			1		
India	C	11,646	8,014	5,722	1,248	1,034	897	776	1,018	797	541	878								
	D	2,929	2,082	1,534	294	277	252	212	237	178	108	199								
Bassein	C			1																
	D			1																
Bombay	C	22	26	42	12	10	5	5	7	6	9	5	7	6	8	12	10	14		
	D	13	20	17	8	4	5	4	6	3	6	5	3	4	5	3	3	4		
Calcutta	C	64	40	29	2	6	6	9	5	3	1	13	6	28	9	10	19	14		
	D	47	33	20	1	4	2	1	3	3		8	5	8	6	5	8	5		
Cochin	C		2												1					
Karachi	C	20	1	2		1	1			1								1		
	D	4		1			2											1		
Madras	C	22	35	47	19	16	10	6	14	20	25	30	24	33	45	38	24	26		
	D	8	7	6	2		3		1	1	3	9	7	6	12	13	4	7		
Moulmein	C	5		1	1	1	1													
Negapatam	C										1	1	1	1	1		2	2		
	D															1	1			
Rangoon	C	29	26	5					1				1		1	1	1			
	D	11	6										1							
Tuticorin	C	1				7			7	6	6		9			3	8			
	D	1							1	2	3		3			1	2			
Vizagapatam	C		1																	

[1] These cases of smallpox are for periods of 2 weeks.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

[C indicates cases; D, deaths; P, present]

Place		May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932				October, 1932					November, 1932				December, 1932	
						3	10	17	24	1	8	15	22	29	5	12	19	26	3	10
India (French):																				
Karikal	C	2																		
	D	1																		
Pondichery Territory	C	7	11	16	7	4	4	3	4	3	3	3					2		1	
	D	7	11	16	7	4	4	3	4	3	3	3					2		1	
Indo-China (see also table below):																				
Saigon and Cholon	C	18	7	8	2	1		1	1		1					1				
	D	17	7	8	2	1		2			1					1				
Iraq:																				
Baghdad	C	27	9	4	1	5			1	3		2	3	2	2	3	14	12	4	1
	D	12	1	2		1			1	1			2		2		5	4	1	1
Basra	C	8	4		3	1	1	1	2	10	5	16	18	17	21	29	27	22	19	
	D	2	2		1		1	1	2		1	5	9	11	16	13	17	17	6	
Ivory Coast. (See table below.)																				
Japan: Nagasaki	C	3																		
Mexico:																				
Chihuahua	D	5	1	3																
Jalisco (State)—Guadalajara	D	2																		
Mexico, D. F	C	18	16	12	5	2		2			4		1		2	1	1			
	D		3	1								1								
Monterrey	C															1				
Saltillo	D	2	3	3	1	1							1			2	2	4	1	4
San Luis Potosi	D	1												1		2				
Torreon	C	3								4	1			1						
	D	2																		
Morocco. (See table below.)																				
Nigeria	C	234	123	402		18		65				58	1	57						
	D	53	15	28		2		13				1		7						
Palestine	C		1																	
Persia	C				11	29	31	28	35	43	53	58				110				
	D				3	19	13	11	27	16	17	34				37				
Peru. (See table below.)																				
Poland	C	1		1																
	D	1																		

Portugal:																				
Lisbon	C	25	10	16	4	1	2	2	2	2	2	3		4		1	1			
Oporto	C	23	29	23	8	1	6	3	1		4				1		4	2	4	
Sarawak	C		7																	
Siam	C	9																		
Sierra Leone[1]	C	5		6		14		2												
Straits Settlements	C					1	1													
	D	3																		
Sudan (Anglo-Egyptian)	C	3				1							8					5		
Syria. (See table below.)																				
Turkey (see also table below): Istanbul	C	2																		
Union of Socialist Soviet Republics. (See table below.)																				
Union of South Africa:																				
Cape Province	C	P	P									P	P	P						
Orange Free State	C							P		P	P			P	P					
Transvaal	C	P																		
Upper Volta	C	1		1																
On vessels:																				
S. S. Tuscania at Suez from Bombay	C	1																		
S. S. Tilawa at Singapore from Amoy and Hong Kong	C	1																		
S. S. Marnix Van Ste. Aldegonde at Port Said	C		2																	
S. S. Ethiopia at Rangoon from Shanghai	C	1																		
S. S. Madras City at Kobe from Shanghai	C	1																		
S. S. Ranjput at Cochin from Colombo	C		1																	
S. S. British Splendour en route to Gibraltar	C																1			
S. S. Jervis Bay en route to Southampton	C																1			
	D																1			

Place		May, 1932	June, 1932	July, 1932			August, 1932			September, 1932			October, 1932			Nov. 1-10, 1932
				1-10	11-20	21-31	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20	21-31	
Gold Coast	C	2														
Indo-China (see also table above)	C	289	251	72	54	62	36	42	69	73	39	15	52	76	29	50
	D	83	99	20	9	29	16	17	28	36	20	6	15	21	10	19
Ivory Coast	C		19													
	D		1													
Syria: Beirut	C			1					1							

[1] From Mar. 6 to July 9, 1932, 578 cases of smallpox, with 13 deaths, were reported in Sierra Leone.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

[C indicates cases; D, deaths; P, present]

Place		April, 1932	May, 1932	June, 1932	July, 1932	August, 1932	September, 1932	October, 1932
Chosen	C	55	55	50	9	5		
	D	5	8	4	7	3		
Greece	C	8			2			
Morocco	C	101	101	27	11	19	24	33
Peru	C					35	166	75

Place		April, 1932	May, 1932	June, 1932	July, 1932	August, 1932	September, 1932	October, 1932
Turkey (see also table above)	C				3	30	13	13
	D					3	4	1
Union of Socialist Soviet Republics	C		3,289	1,672	967			

TYPHUS FEVER

Place		May 1–28, 1932	May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932: 3	10	17	24	October, 1932: 1	8	15	22	29	November, 1932: 5	12	19	26
Algeria:																			
Algiers	C	61	30	33	10	26	6	2		2	5	3	3		1	5	1		2
	D											2							
Bona	C											2							
Constantine Department	C		1	102	20														2
Oran	C	4	10																
Argentina: Buenos Aires	C								1										
	D								1										
British East Africa: Uganda	C												16	18					
	D													4					
Bulgaria	C	38	15	10	4				1										
	D	3	2																
Chile (see also table below):																			
Antofagasta	C	1	1												1				
Iquique	C		1	1															
Santiago	C	1	8		15	2	3	4	13		32	10	19	11	7	6		4	
Talcahuano	D				1														
China:																			
Hankow	C	2	1	1															
Tientsin	C	1																	
Chosen. (See table below.)																			
Colombia: Cali	D										1							1	
Czechoslovakia. (See table below.)																			

Egypt:																			
Alexandria	C	1	8		1	1	3	1											
Beheira	C				15					21									
	D				1					7									
Dakahlia	C	69																	
Gharbieh	C					1						1							
Port Said	C		1	3	3			1					1			1			
Provinces	C	163	139	122	49	6				3									
Greece. (See table below.)	D	8	10	7	2														
Guatemala. (See table below.)																			
Irish Free State:																			
Cork County—																			
Bandon	C												1						
Schull	C				1														
Dublin	C										1	1							
Kerry County—	D										1		1						
Dingle	C					1													
Killarney	C																1		16
Roscommon County—																			
Leitrim	C	1																	
	D	1																	
Roscommon	C		1																
Lithuania. (See table below.)																			
Mexico:																			
Mexico, D. F	C	8	7	11	4	1	4	2	3			1	2	2	1	6	2	6	
	D	2	2	3	2	2	2	3	2				1	1					
Monterrey	C				1														
	D				1														
Torreon	C			1			6											1	1
Morocco	C	19	26	6	8	1	5		1	1		1						2	4
	D		3		1														
Palestine	C	1	4	1		2			4	1	1	3			1	1			1
Persia	C	123	110	54	7	3			3	3			13				2		
Peru. (See table below.)	D	4	6																
Poland	C	380	204	101	29	6	5	3	12	18	33	50	19	21	15	7	20	13	
Portugal:	D	25	14	8	2		1	1		1	1	4	3	7	3	1	2	2	
Lisbon	C		7																
Oporto	C	3	4							1									
Rumania	C	234	45	56	20	5	3	3	6	2	5	1	1	1	6				
	D	23	10	7	2				1	1					2				
Tunisia: Tunis	C	55	28	8	6														
Turkey. (See table below).																			
Union of Socialist Soviet Republics. (See table below.)																			
Union of South Africa:																			
Cape Province	C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
Natal	C	P	P	1						P				P	P	P			
Orange Free State	C	P	P	P	P	P		P	P	P	P	P	P	P	P	P			
Transvaal	C		P	P															
Yugoslavia. (See table below.)																			

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

TYPHUS FEVER

[C indicates cases; D, deaths; P, present]

Place		May, 1932	June, 1932	July, 1932	August, 1932	September, 1932	October, 1932	November, 1932
Chile: Coquimbo Province	C							60
Chosen: Seoul	C		2					
Czechoslovakia	C	5	1					
Greece	C		4	3	14	15		
Guatemala	C		19		2	9		
	D	8	3			5		
Lithuania	C	13	16	7		5		
	D	1						
Peru	C				37	50	81	
Turkey	C		4	7	8	6	11	
	D			1	1		1	
Union of Socialist Soviet Republics	C	7,379	7,419	6,054				
Yugoslavia	C	34			1			
	D	6						

YELLOW FEVER

Place		May 29–June 25, 1932	June 26–July 23, 1932	July 24–Aug. 20, 1932	Week ended— Aug. 27, 1932	September, 1932: 3	10	17	24	October, 1932: 1	8	15	22	29	November, 1932: 5	12	19	26	Dec. 3, 1932
Bolivia.[1]																			
Brazil:																			
Ceara State	C							1	1										
	D	2		3				1	1										
Parahyba State	C	1																	
	D	1					2			1									
Pernambuco State	D	1	6	1			1	[2] 2				1							
French West Africa: Guinea	C															2	1	2	
	D															2	1	2	
Senegal	C												8						
	D												5						
Bakel—Kidira	C									1	4	1							
	D									1	4								
Upper Gambia	C								2			1							
	D								2										
Sudan (French): Keyes	C														3	1		1	1
	D														3	1		1	1
Upper Volta	C		1																
	D		1																

[1] About 30 deaths from yellow fever occurred in southern Bolivia during the spring of 1932.

[2] Date uncertain.

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